



results of BLAST

BLASTP 2.2.9 [May-01-2004]

Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1084304418-31146-18148171693.BLASTQ3

Query=

(51 letters) *Residues 67-117 Seq ID NO: 206*

Database: All non-redundant GenBank CDS

translations+PDB+SwissProt+PIR+PRF excluding environmental samples

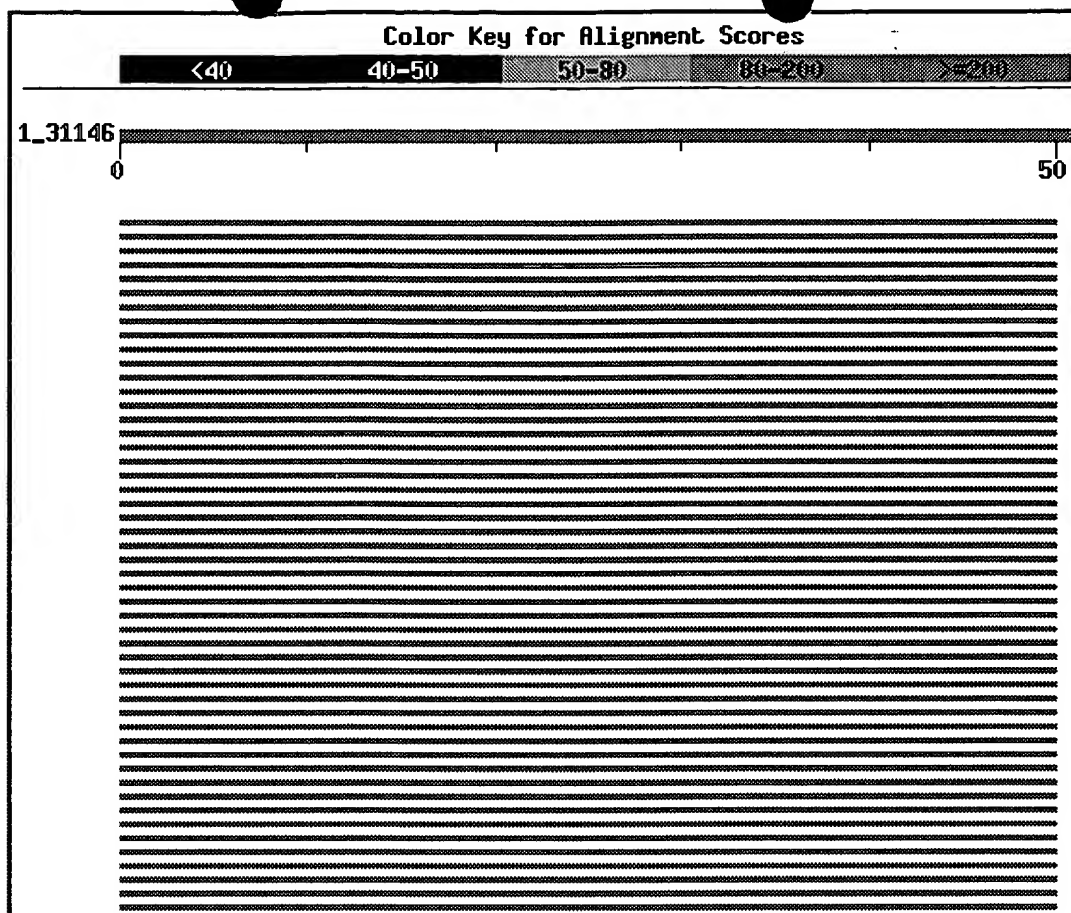
1,798,171 sequences; 593,787,773 total letters

If you have any problems or questions with the results of this search please refer to the **BLAST FAQs**

Taxonomy reports

Distribution of 100 Blast Hits on the Query Sequence

Mouse-over to show define and scores. Click to show alignments



| Sequences producing significant alignments: | | Score (bits) | E Value |
|---|--------------------------------------|-----------------|------------|
| gi 2326455 emb CAA72801.1 | polyprotein [Hepatitis C virus t... | 119 | 2e-26 |
| gi 3550763 dbj BAA32666.1 | polyprotein [Hepatitis C virus] | 115 | 2e-25 |
| gi 1765877 dbj BAA13620.1 | core, env and part of E2/NS1 [He... | 111 | 3e-24 |
| gi 3550765 dbj BAA32667.1 | polyprotein [Hepatitis C virus] | 111 | 4e-24 |
| gi 1765873 dbj BAA13618.1 | core, env and part of E2/NS1 [He... | 111 | 5e-24 |
| gi 7650244 gb AAF65953.1 | polyprotein [Hepatitis C virus] | 110 | 6e-24 |
| gi 1765885 dbj BAA13624.1 | core, env and part of E2/NS1 [He... | 110 | 7e-24 |
| gi 464178 dbj BAA03581.1 | polyprotein [Hepatitis C virus] | 110 | 9e-24 |
| gi 1765887 dbj BAA13625.1 | core, env and part of E2/NS1 [He... | 110 | 9e-24 |
| gi 1765879 dbj BAA13621.1 | core, env and part of E2/NS1 [He... | 110 | 1e-23 |
| gi 1765881 dbj BAA13622.1 | core, env and part of E2/NS1 [He... | 109 | 1e-23 |
| gi 2252490 emb CAA72338.1 | HCV polyprotein [Hepatitis C vir... | 109 | 1e-23 |
| gi 600265 dbj BAA13617.1 | core, env and part of E2/NS1 [Hep... | 109 | 1e-23 |
| gi 1765875 dbj BAA13619.1 | core, env and part of E2/NS1 [He... | 109 | 1e-23 |
| gi 130461 sp P27958 POLG HCVH | Genome polyprotein [Contains:... | 109 | 1e-23 |
| gi 8926245 gb AAF81759.1 | polyprotein [Hepatitis C virus] | 109 | 2e-23 |
| gi 14532245 gb AAK66554.1 | HCV type 1a/1b chimera polyprote... | 109 | 2e-23 |
| gi 2327071 gb AAB67036.1 | polyprotein [Hepatitis C virus st... | 109 | 2e-23 |
| gi 22129793 ref NP_671491.1 | polyprotein [Hepatitis C virus... | 109 | 2e-23 |
| gi 2327075 gb AAB67038.1 | polyprotein [Hepatitis C virus st... | 109 | 2e-23 |
| gi 9930557 gb AAG02099.1 | polyprotein [Hepatitis C virus] | 109 | 2e-23 |
| gi 1066618 gb AAC42193.1 | core protein | 108 | 4e-23 |
| gi 1765866 dbj BAA13614.1 | core, env and part of E2/NS1 [He... | 105 | 3e-22 |

| | | | |
|---|--|------------|-------|
| gi 1765868 dbj BAA13615.1 | core, env and part of E2/NS1 [He... | <u>105</u> | 3e-22 |
| gi 1181859 gb AAA86919.1 | polyprotein | <u>104</u> | 4e-22 |
| gi 1009263 dbj BAA07092.1 | core, env and part of E2/NS1 [He... | <u>104</u> | 5e-22 |
| gi 1009265 dbj BAA07093.1 | core, env and part of E2/NS1 [He... | <u>104</u> | 5e-22 |
| gi 410168 gb AAA20154.1 | structural region | <u>104</u> | 5e-22 |
| gi 1009261 dbj BAA07091.1 | core, env and part of E2/NS1 [He... | <u>104</u> | 5e-22 |
| gi 1009259 dbj BAA07090.1 | core, env and part of E2/NS1 [He... | <u>103</u> | 7e-22 |
| gi 1009271 dbj BAA07271.1 | core, env and part of E2/NS1 [He... | <u>103</u> | 8e-22 |
| gi 22212866 gb AAM94419.1 | polyprotein [Hepatitis C virus] | <u>102</u> | 2e-21 |
| gi 13344961 gb AAK19134.1 | polyprotein precursor [Hepatitis... | <u>102</u> | 3e-21 |
| gi 13344963 gb AAK19135.1 | polyprotein precursor [Hepatitis... | <u>102</u> | 3e-21 |
| gi 13344967 gb AAK19137.1 | polyprotein precursor [Hepatitis... | <u>101</u> | 3e-21 |
| gi 13344955 gb AAK19131.1 | polyprotein precursor [Hepatitis... | <u>101</u> | 3e-21 |
| gi 13344965 gb AAK19136.1 | polyprotein precursor [Hepatitis... | <u>101</u> | 3e-21 |
| gi 13344949 gb AAK19128.1 | polyprotein precursor [Hepatitis... | <u>101</u> | 4e-21 |
| gi 13344947 gb AAK19127.1 | polyprotein precursor [Hepatitis... | <u>101</u> | 5e-21 |
| gi 13344957 gb AAK19132.1 | polyprotein precursor [Hepatitis... | <u>101</u> | 5e-21 |
| gi 13344953 gb AAK19130.1 | polyprotein precursor [Hepatitis... | <u>101</u> | 5e-21 |
| gi 13344951 gb AAK19129.1 | polyprotein precursor [Hepatitis... | <u>101</u> | 5e-21 |
| gi 25900861 dbj BAC41268.1 | polyprotein [Hepatitis C virus] | <u>100</u> | 7e-21 |
| gi 1066604 gb AAC42186.1 | core protein | <u>100</u> | 8e-21 |
| gi 410166 gb AAA20153.1 | structural region | <u>100</u> | 8e-21 |
| gi 25900881 dbj BAC41278.1 | polyprotein [Hepatitis C virus] | <u>100</u> | 1e-20 |
| gi 474978 dbj BAA03730.1 | polyprotein [Hepatitis C virus] | <u>100</u> | 1e-20 |
| gi 464172 dbj BAA03732.1 | polyprotein [Hepatitis C virus] | <u>100</u> | 1e-20 |
| gi 25900867 dbj BAC41271.1 | polyprotein [Hepatitis C virus] | <u>100</u> | 1e-20 |
| gi 25900877 dbj BAC41276.1 | polyprotein [Hepatitis C virus] | <u>100</u> | 1e-20 |
| gi 25900875 dbj BAC41275.1 | polyprotein [Hepatitis C virus] | <u>100</u> | 1e-20 |
| gi 25900879 dbj BAC41277.1 | polyprotein [Hepatitis C virus] | <u>100</u> | 1e-20 |
| gi 25900887 dbj BAC41281.1 | polyprotein [Hepatitis C virus] | <u>99</u> | 2e-20 |
| gi 25900869 dbj BAC41272.1 | polyprotein [Hepatitis C virus] | <u>99</u> | 2e-20 |
| gi 1066572 gb AAC42170.1 | core protein | <u>99</u> | 2e-20 |
| gi 974347 gb AAB40038.1 | core protein [Hepatitis C virus ty... | <u>98</u> | 5e-20 |
| gi 532381 gb AAA21037.1 | polyprotein | <u>98</u> | 5e-20 |
| gi 329736 gb AAA98989.1 | capsid and envelope:x proteins | <u>97</u> | 9e-20 |
| gi 1246371 dbj BAA09974.1 | polyprotein [Hepatitis C virus] | <u>95</u> | 5e-19 |
| gi 1246377 dbj BAA09976.1 | polyprotein [Hepatitis C virus] | <u>95</u> | 5e-19 |
| gi 532457 gb AAA21075.1 | polyprotein | <u>92</u> | 3e-18 |
| gi 1930120 gb AAB51539.1 | nucleocapsid protein [Hepatitis C... | <u>92</u> | 3e-18 |
| gi 7274365 gb AAF44740.1 | core structural protein [Hepatiti... | <u>91</u> | 5e-18 |
| gi 7274363 gb AAF44739.1 | core structural protein [Hepatiti... | <u>91</u> | 5e-18 |
| gi 14161283 gb AAK54689.1 | polyprotein [Hepatitis C virus] | <u>91</u> | 1e-17 |
| gi 532369 gb AAA21031.1 | polyprotein | <u>90</u> | 1e-17 |
| gi 42411917 gb AAS15483.1 | core protein [Hepatitis C virus] | <u>90</u> | 1e-17 |
| gi 42411717 gb AAS15383.1 | core protein [Hepatitis C virus] | <u>90</u> | 1e-17 |
| gi 42411125 gb AAS15087.1 | core protein [Hepatitis C virus]... | <u>89</u> | 3e-17 |
| gi 42411619 gb AAS15334.1 | core protein [Hepatitis C virus] | <u>89</u> | 3e-17 |
| gi 42411783 gb AAS15416.1 | core protein [Hepatitis C virus] | <u>89</u> | 3e-17 |
| gi 42411721 gb AAS15385.1 | core protein [Hepatitis C virus]... | <u>89</u> | 3e-17 |
| gi 42411903 gb AAS15476.1 | core protein [Hepatitis C virus] | <u>89</u> | 3e-17 |
| gi 296160 emb CAA50531.1 | core protein [Hepatitis C virus] | <u>89</u> | 3e-17 |
| gi 42411249 gb AAS15149.1 | core protein [Hepatitis C virus] | <u>89</u> | 3e-17 |
| gi 42411293 gb AAS15171.1 | core protein [Hepatitis C virus] | <u>89</u> | 3e-17 |
| gi 42411387 gb AAS15218.1 | core protein [Hepatitis C virus]... | <u>89</u> | 3e-17 |
| gi 420567 pir S32740 | polyprotein - hepatitis C virus (isol... | <u>89</u> | 3e-17 |
| gi 42411725 gb AAS15387.1 | core protein [Hepatitis C virus] | <u>89</u> | 3e-17 |
| gi 42411091 gb AAS15070.1 | core protein [Hepatitis C virus]... | <u>89</u> | 3e-17 |
| gi 42411089 gb AAS15069.1 | core protein [Hepatitis C virus] | <u>89</u> | 3e-17 |
| gi 42411853 gb AAS15451.1 | core protein [Hepatitis C virus] | <u>89</u> | 3e-17 |
| gi 42411889 gb AAS15469.1 | core protein [Hepatitis C virus] | <u>89</u> | 3e-17 |

| | | | |
|--|-------------------------------------|----|-------|
| gi 1322346 gb AAB00216.1 | core protein | 89 | 3e-17 |
| gi 42411263 gb AAS15156.1 | core protein [Hepatitis C virus] | 89 | 3e-17 |
| gi 42411347 gb AAS15198.1 | core protein [Hepatitis C virus]... | 89 | 3e-17 |
| gi 42411883 gb AAS15466.1 | core protein [Hepatitis C virus] | 89 | 3e-17 |
| gi 42411565 gb AAS15307.1 | core protein [Hepatitis C virus] | 89 | 3e-17 |
| gi 42411381 gb AAS15215.1 | core protein [Hepatitis C virus] | 89 | 3e-17 |
| gi 42411191 gb AAS15120.1 | core protein [Hepatitis C virus] | 89 | 3e-17 |
| gi 1322338 gb AAB00212.1 | core protein | 89 | 3e-17 |
| gi 42411115 gb AAS15082.1 | core protein [Hepatitis C virus] | 89 | 4e-17 |
| gi 42411107 gb AAS15078.1 | core protein [Hepatitis C virus] | 89 | 4e-17 |
| gi 742039 prf 2008346A | core protein | 89 | 4e-17 |
| gi 42411375 gb AAS15212.1 | core protein [Hepatitis C virus]... | 88 | 4e-17 |
| gi 42411785 gb AAS15417.1 | core protein [Hepatitis C virus]... | 88 | 4e-17 |
| gi 42411909 gb AAS15479.1 | core protein [Hepatitis C virus] | 88 | 4e-17 |
| gi 26053621 ref NP_751919.1 | core protein; p21c [Hepatitis ...] | 88 | 4e-17 |
| gi 42411251 gb AAS15150.1 | core protein [Hepatitis C virus]... | 88 | 4e-17 |
| gi 42411383 gb AAS15216.1 | core protein [Hepatitis C virus]... | 88 | 5e-17 |

Alignments

Get selected sequences

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☐ >[gi|2326455|emb|CAA72801.1|](#) polyprotein [Hepatitis C virus type 6a]
Length = 3018

Score = 119 bits (298), Expect = 2e-26
Identities = 50/51 (98%), Positives = 51/51 (100%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQPQGRHWAQPGYPWPLYG+EGCGWAGWLLSPRGSRPHWGPNDPRRRSR
Sbjct: 67 KARQPQGRHWAQPGYPWPLYGSEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 117

☐ >[gi|3550763|dbj|BAA32666.1|](#) polyprotein [Hepatitis C virus]
Length = 3016

Score = 115 bits (288), Expect = 2e-25
Identities = 49/51 (96%), Positives = 50/51 (98%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQ QGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRP+WGPNDPRRRSR
Sbjct: 67 KARQSQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPNWGPNDPRRRSR 117

☐ >[gi|1765877|dbj|BAA13620.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 111 bits (278), Expect = 3e-24
Identities = 50/51 (98%), Positives = 50/51 (98%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQP GRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR
Sbjct: 67 KARQPTGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 117

☐ >gi|3550765|dbj|BAA32667.1| polyprotein [Hepatitis C virus]
Length = 3015

Score = 111 bits (277), Expect = 4e-24
Identities = 47/51 (92%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQP GR W QPGYPWPLYGNEGCGWAGWLLSPRGSRP+WGPNDPRRRSR
Sbjct: 67 KARQPIGRSWGQPGYPWPLYGNEGCGWAGWLLSPRGSRPNWGPNDPRRRSR 117

☐ >gi|1765873|dbj|BAA13618.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 111 bits (277), Expect = 5e-24
Identities = 50/51 (98%), Positives = 50/51 (98%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQ QGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR
Sbjct: 67 KARQSQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 117

☐ >gi|7650244|gb|AAF65953.1| polyprotein [Hepatitis C virus]
Length = 3010

Score = 110 bits (276), Expect = 6e-24
Identities = 47/51 (92%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQP+GR WAQPGYPWPLYGNEG GWAGWLLSPRGSRP WGPNDPRRRSR
Sbjct: 67 KARQPEGRAWAQPGYPWPLYGNEGMGWAGWLLSPRGSRPSWGPNDPRRRSR 117

☐ >gi|1765885|dbj|BAA13624.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 110 bits (276), Expect = 7e-24
Identities = 50/51 (98%), Positives = 50/51 (98%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQ QGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR
Sbjct: 67 KARQSQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 117

☐ >gi|464178|dbj|BAA03581.1| polyprotein [Hepatitis C virus]
Length = 3011

Score = 110 bits (275), Expect = 9e-24
Identities = 46/51 (90%), Positives = 49/51 (96%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP+DPRRRSR

Sbjct: 67 KARRPEGRSWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPSPDPRRRSR 117

☐ >gi|1765887|dbj|BAA13625.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 110 bits (274), Expect = 9e-24
Identities = 50/51 (98%), Positives = 50/51 (98%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQ QGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR
Sbjct: 67 KARQSQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 117

☐ >gi|1765879|dbj|BAA13621.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 110 bits (274), Expect = 1e-23
Identities = 49/51 (96%), Positives = 50/51 (98%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQP GRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRP+WGPNDPRRRSR
Sbjct: 67 KARQPTGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPNWGPNDPRRRSR 117

☐ >gi|1765881|dbj|BAA13622.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 109 bits (273), Expect = 1e-23
Identities = 48/51 (94%), Positives = 49/51 (96%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQ QGRHWAQPGYPWPLYGNEGCGWAGWL+SPRGSRPHWGPNDPR RSR
Sbjct: 67 KARQSQGRHWAQPGYPWPLYGNEGCGWAGWLMSRGSRPHWGPNDPRHRSR 117

☐ >gi|2252490|emb|CAA72338.1| HCV polyprotein [Hepatitis C virus type 4a]
Length = 3008

Score = 109 bits (273), Expect = 1e-23
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGPNDPR RSR
Sbjct: 67 KARRPEGRSWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPNDPRGRSR 117

☐ >gi|600265|dbj|BAA13617.1| core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 109 bits (273), Expect = 1e-23
Identities = 49/51 (96%), Positives = 50/51 (98%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQ QGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRP+WGPNDPRRRSR
Sbjct: 67 KARQSQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPNWGPNDPRRRSR 117

☐ >[gi|1765875|dbj|BAA13619.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 109 bits (273), Expect = 1e-23
Identities = 49/51 (96%), Positives = 49/51 (96%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQP GRHWAQPGY WPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR
Sbjct: 67 KARQPTGRHWAQPGYAWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 117

☐ >[gi|130461|sp|P27958|POLG HCVH](#) Genome polyprotein [Contains: Capsid protein C (C (P22); Envelope glycoprotein E1 (GP32) (GP35); Envelope glycoprotein E2 (GP68) (GP70) (NS1); Protein P7; Nonstructural protein NS2 (P21) ; Protease/helicase NS3 (P70) (Hepacivirin) ; Nonstructural protein NS4A (P4); Nonstructural protein NS4B (P27); Nonstructural protein NS5A (P56); Nonstructural protein NS5B (P66) (P70) (RNA-directed RNA polymerase)]

[gi|74464|pir||GNWVCH](#) genome polyprotein - hepatitis C virus (strain H)
[gi|329738|gb|AAA45534.1|](#) polyprotein
Length = 3011

Score = 109 bits (273), Expect = 1e-23
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DP RR RS R
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDP RR RS R 117

☐ >[gi|8926245|gb|AAF81759.1|](#) polyprotein [Hepatitis C virus]
Length = 3011

Score = 109 bits (272), Expect = 2e-23
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DP RR RS R
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDP RR RS R 117

☐ >[gi|14532245|gb|AAK66554.1|](#) HCV type 1a/1b chimera polyprotein [synthetic constr
[gi|14532247|gb|AAK66555.1|](#) HCV type 1a polyprotein [synthetic construct]
[gi|14532249|gb|AAK66556.1|](#) HCV type 1a/1b chimera polyprotein [synthetic construct]
Length = 3011

Score = 109 bits (272), Expect = 2e-23
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >gi|2327071|gb|AAB67036.1| polyprotein [Hepatitis C virus strain H77]
Length = 3011

Score = 109 bits (272), Expect = 2e-23
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >gi|22129793|ref|NP_671491.1| polyprotein [Hepatitis C virus]
gi|2316098|gb|AAB66324.1| polyprotein [Hepatitis C virus]
Length = 3011

Score = 109 bits (272), Expect = 2e-23
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >gi|2327075|gb|AAB67038.1| polyprotein [Hepatitis C virus strain H77]
Length = 3011

Score = 109 bits (272), Expect = 2e-23
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >gi|9930557|gb|AAG02099.1| polyprotein [Hepatitis C virus]
Length = 3011

Score = 109 bits (272), Expect = 2e-23
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >gi|1066618|gb|AAC42193.1| core protein
Length = 319

Score = 108 bits (269), Expect = 4e-23
Identities = 50/51 (98%), Positives = 50/51 (98%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQ QGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR
Sbjct: 67 KARQTQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 117

☐ >[gi|1765866|dbj|BAA13614.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 105 bits (262), Expect = 3e-22
Identities = 47/51 (92%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQP GR W QPGYPWPLYGNEGCGWAGWLLSPRGSRP+WGPNDPRRRSR
Sbjct: 67 KARQPIGRSWGQPGYPWPLYGNEGCGWAGWLLSPRGSRPNWGPNDPRRRSR 117

☐ >[gi|1765868|dbj|BAA13615.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 105 bits (262), Expect = 3e-22
Identities = 47/51 (92%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQP GR W QPGYPWPLYGNEGCGWAGWLLSPRGSRP+WGPNDPRRRSR
Sbjct: 67 KARQPTGRSWGQPGYPWPLYGNEGCGWAGWLLSPRGSRPNWGPNDPRRRSR 117

☐ >[gi|1181859|gb|AAA86919.1|](#) polyprotein
Length = 802

Score = 104 bits (260), Expect = 4e-22
Identities = 47/51 (92%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQP+GR WAQPGYPWPLYGNEG GWAGWLLSPRGSRP WGPNDPRRRSR
Sbjct: 67 KARQPEGRAWAQPGYPWPLYGNEGMGWAGWLLSPRGSRPSWGPNDPRRRSR 117

☐ >[gi|1009263|dbj|BAA07092.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 104 bits (260), Expect = 5e-22
Identities = 47/51 (92%), Positives = 47/51 (92%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR
Sbjct: 67 KARHQTGRSWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 117

☐ >[gi|1009265|dbj|BAA07093.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]

Length = 415

Score = 104 bits (260), Expect = 5e-22
Identities = 47/51 (92%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGPNDPRRRSR
Sbjct: 67 KARRPTGRSWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPNDPRRRSR 117

☐ >[gi|410168|qb|AAA20154.1|](#) structural region
Length = 411

Score = 104 bits (260), Expect = 5e-22
Identities = 47/51 (92%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KARQP+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARQPEGRAWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >[gi|1009261|dbj|BAA07091.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 104 bits (259), Expect = 5e-22
Identities = 47/51 (92%), Positives = 47/51 (92%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR
Sbjct: 67 KARHQTGRSWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 117

☐ >[gi|1009259|dbj|BAA07090.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 103 bits (258), Expect = 7e-22
Identities = 47/51 (92%), Positives = 47/51 (92%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR
Sbjct: 67 KARHQTGRSWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 117

☐ >[gi|1009271|dbj|BAA07271.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]
Length = 414

Score = 103 bits (258), Expect = 8e-22
Identities = 46/51 (90%), Positives = 46/51 (90%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
K R GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR
Sbjct: 67 KVRHQTGRSWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 117

☐ >gi|22212866|gb|AAM94419.1| polyprotein [Hepatitis C virus]
Length = 746

Score = 102 bits (254), Expect = 2e-21
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >gi|13344961|gb|AAK19134.1| polyprotein precursor [Hepatitis C virus]
Length = 415

Score = 102 bits (253), Expect = 3e-21
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >gi|13344963|gb|AAK19135.1| polyprotein precursor [Hepatitis C virus]
Length = 415

Score = 102 bits (253), Expect = 3e-21
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >gi|13344967|gb|AAK19137.1| polyprotein precursor [Hepatitis C virus]
Length = 415

Score = 101 bits (252), Expect = 3e-21
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >gi|13344955|gb|AAK19131.1| polyprotein precursor [Hepatitis C virus]
Length = 415

Score = 101 bits (252), Expect = 3e-21
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >[gi|13344965|gb|AAK19136.1|](#) polyprotein precursor [Hepatitis C virus]
Length = 415

Score = 101 bits (252), Expect = 3e-21
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >[gi|13344949|gb|AAK19128.1|](#) polyprotein precursor [Hepatitis C virus]
Length = 415

Score = 101 bits (252), Expect = 4e-21
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >[gi|13344947|gb|AAK19127.1|](#) polyprotein precursor [Hepatitis C virus]
Length = 415

Score = 101 bits (251), Expect = 5e-21
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >[gi|13344957|gb|AAK19132.1|](#) polyprotein precursor [Hepatitis C virus]
Length = 415

Score = 101 bits (251), Expect = 5e-21
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >[gi|13344953|gb|AAK19130.1|](#) polyprotein precursor [Hepatitis C virus]
Length = 415

Score = 101 bits (251), Expect = 5e-21
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR

Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >[gi|13344951|gb|AAK19129.1|](#) polyprotein precursor [Hepatitis C virus]
Length = 415

Score = 101 bits (251), Expect = 5e-21
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >[gi|25900861|dbj|BAC41268.1|](#) polyprotein [Hepatitis C virus]
Length = 491

Score = 100 bits (250), Expect = 7e-21
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 56 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 106

☐ >[gi|1066604|gb|AAC42186.1|](#) core protein
Length = 319

Score = 100 bits (249), Expect = 8e-21
Identities = 46/51 (90%), Positives = 47/51 (92%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
K RQP GR W QPGYPWPLYGNEGCGWAGWLLSPRGSRP+WGPNDPRRRSR
Sbjct: 67 KVRQPTGRSWGQPGYPWPLYGNEGCGWAGWLLSPRGSRPNWGPNDPRRRSR 117

☐ >[gi|410166|gb|AAA20153.1|](#) structural region
Length = 411

Score = 100 bits (249), Expect = 8e-21
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >[gi|25900881|dbj|BAC41278.1|](#) polyprotein [Hepatitis C virus]
Length = 488

Score = 100 bits (248), Expect = 1e-20
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 56 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 106

☐ >[gi|474978|dbj|BAA03730.1|](#) polyprotein [Hepatitis C virus]
Length = 502

Score = 100 bits (248), Expect = 1e-20
Identities = 46/51 (90%), Positives = 49/51 (96%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP+DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >[gi|464172|dbj|BAA03732.1|](#) polyprotein [Hepatitis C virus]
Length = 502

Score = 99.8 bits (247), Expect = 1e-20
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 67 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 117

☐ >[gi|25900867|dbj|BAC41271.1|](#) polyprotein [Hepatitis C virus]
Length = 488

Score = 99.8 bits (247), Expect = 1e-20
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 56 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 106

☐ >[gi|25900877|dbj|BAC41276.1|](#) polyprotein [Hepatitis C virus]
Length = 488

Score = 99.8 bits (247), Expect = 1e-20
Identities = 46/51 (90%), Positives = 48/51 (94%)

Query: 1 KARQPQGRHWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPHWGPNDPRRRSR 51
KAR+P+GR WAQPGYPWPLYGNEGCGWAGWLLSPRGSRP WGP DPRRRSR
Sbjct: 56 KARRPEGRTWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPTDPRRRSR 106

Get selected sequences

Select all

Deselect all

Database: All non-redundant GenBank CDS
translations+PDB+SwissProt+PIR+PRF excluding environmental samples
Posted date: May 11, 2004 12:59 AM
Number of letters in database: 593,787,773
Number of sequences in database: 1,798,171

| Lambda | K | H |
|--------|-------|-------|
| 0.319 | 0.144 | 0.570 |

Gapped

| Lambda | K | H |
|--------|--------|-------|
| 0.267 | 0.0410 | 0.140 |

Matrix: BLOSUM62

Gap Penalties: Existence: 11, Extension: 1

Number of Hits to DB: 22,039,502

Number of Sequences: 1798171

Number of extensions: 836773

Number of successful extensions: 1918

Number of sequences better than 10.0: 322

Number of HSP's better than 10.0 without gapping: 321

Number of HSP's successfully gapped in prelim test: 1

Number of HSP's that attempted gapping in prelim test: 1595

Number of HSP's gapped (non-prelim): 324

length of query: 51

length of database: 593,787,773

effective HSP length: 24

effective length of query: 27

effective length of database: 550,631,669

effective search space: 14867055063

effective search space used: 14867055063

T: 11

A: 40

X1: 16 (7.4 bits)

X2: 38 (14.6 bits)

X3: 64 (24.7 bits)

S1: 41 (21.7 bits)

S2: 68 (30.8 bits)